

C. Claims

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1-9. (Cancelled)

10. (New) A fuel supply device, which supplies a fuel gas introduced from a fuel cartridge to a fuel cell through a flow passage, comprising:

a fuel introduction valve that introduces the fuel gas into the flow passage from the fuel cartridge;

a purge valve that discharges from the flow passage and into atmosphere any gas other than the fuel gas introduced into the flow passage to effect gas replacement; and

a fuel supply valve that supplies the fuel gas introduced into the flow passage to a fuel cell main body,

wherein an operating portion of a pin of the fuel introduction valve, an operating portion of the purge valve, and an operating portion of the fuel supply valve, which are provided at outside of the flow passage, are operated by at least one of a mechanical operation and an electrical operation to open and shut the fuel introduction valve, the purge valve, and the fuel supply valve to perform a control, whereby the fuel gas

is supplied to the fuel cell.

11. (New) The fuel supply device according to claim 10, wherein the control of the fuel introduction valve, the purge valve, and the fuel supply valve is effected by operating at least one of the mechanical operation and the electrical operation of the operating portion of the pin of the fuel introduction valve, the operating portion of the purge valve, and the operating portion of the fuel supply valve, through a command from a fuel-cell-mounted apparatus in which the fuel supply device is mounted.

12. (New) A fuel cell comprising the fuel supply device according to claim 10 and a detachable fuel cartridge.

13. (New) An apparatus comprising the fuel cell according to claim 12.

14. (New) A fuel supply device, which supplies a fuel gas introduced from a fuel cartridge to a fuel cell through a flow passage, comprising:

a fuel introduction valve that introduces the fuel gas into the flow passage from the fuel cartridge;

a purge valve that discharges from the flow passage and into atmosphere any gas other than the fuel gas introduced into the flow passage to effect gas replacement;

a fuel supply valve that supplies the fuel gas introduced into the flow passage to a fuel cell main body; and

a fuel movement valve comprising a diaphragm, which is displaced in accordance with a pressure of the fuel gas in the flow passage,

wherein an operating portion of a pin of the fuel introduction valve, an operating portion of the purge valve, and an operating portion of the fuel supply valve, which are provided at outside of the flow passage, are operated by at least one of a mechanical operation and an electrical operation to open and shut the fuel introduction valve, the purge valve, and the fuel supply valve to perform a control, whereby the fuel gas is supplied to the fuel cell, and

wherein the pressure of the fuel gas is controlled by the displacement of the diaphragm to move the fuel gas in the flow passage.

15. (New) The fuel supply device according to claim 14, wherein the control of the fuel introduction valve, the purge valve, and the fuel supply valve is effected by operating at least one of the mechanical operation and the electrical operation of the operating portion of the pin of the fuel introduction valve, the operating portion of the purge valve, and the operating portion of the fuel supply valve, through a command from a fuel-cell-mounted apparatus in which the fuel supply device is mounted.

16. (New) A fuel cell comprising the fuel supply device according to claim 14 and a detachable fuel cartridge.

17. (New) An apparatus comprising the fuel cell according to claim 16.